JC20 Rec'd PCT/PTO 1 5 JUL 2005

BIO-127.ST25.txt SEQUENCE LISTING

```
<110>
       SOCIETE DE CONSEILS DE RECHERCHES ET D'APPLICATIONS
       SCIENTIFIQUES, S.A.S.
       DONG, Zheng Xin
<120>
       PEPTIDE YY ANALOGS
<130>
       127P/PCT/US
<140>
       to be assigned
<141>
       2005-07-15
<150>
       US 60/440.812
<151>
       2003-01-17
<150>
       PCT/US2004/00892
<151>
       2004-01-13
<160>
       108
<170>
       PatentIn version 3.3
<210>
<211>
       36
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Human PYY
<400>
Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 10 15
Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr 20 25 30
Arg Gln Arg Tyr
35
<210>
<211>
       36
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Rat PYY
<400>
       2
Tyr Pro Ala Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu 10 15
Leu Ser Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
20 25 30
```

```
Arg Gln Arg Tyr
35
<210>
<211> 34
<212> PRT
<213> Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
       MISC_FEATURE
<222>
        (29) . . (29)
<223>
       Xaa is 1-amino-1-cyclopentanecarboxylic acid
<220>
<221>
<222>
        MOD_RES
        (34)..(34)
<223>
       C-Terminal Amidation
<400> 3
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 5 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Xaa Thr Arg Gln 20 25 30
Arg Tyr
<210>
<211>
       15
<212>
<213>
       PRT
       Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
<223>
        MISC_FEATURE
        (1)..(1)
Xaa is 1-amino-1-cyclopentanecarboxylic acid
<220>
<221>
<222>
        MOD_RES (1)..(1)
<223>
        N-Terminal ACETYLATION
<220>
<221>
<222>
       MOD_RES
       (15)..(15)
<223>
       C-Terminal AMIDATION
<400>
```

```
BIO-127.ST25.txt
Xaa Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
<210>
<211>
<212>
        34
        PRT
<213>
       Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
        MISC_FEATURE
       (24)..(24)
Xaa is beta-(3-pyridinyl)alanine
<222>
<223>
<220>
<221>
<222>
        MOD_RES
        (34)..(34)
<223>
        C-Terminal AMIDATION
<400> 5
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 5 10 15
Arg Tyr Tyr Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
        6
<211>
        34
<212>
<213>
       PRT
       Artificial sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
        MISC_FEATURE
        (24)..(24)
Xaa is beta-(4-thiazolyl)alanine
<223>
<220>
<221>
<222>
        MOD_RES (34)..(34)
<223>
        C-Terminal AMIDATION
<400>
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 10 15
Arg Tyr Tyr Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln
```

30

Arg Tyr

```
<210>
<211>
<212>
         34
         PRT
<213>
         Artificial Sequence
<220>
<223>
         Synthetic Peptide
<220>
<221>
<222>
<223>
         MISC_FEATURE
         (33)..(33)
Xaa is Apc as defined in the specification
<220>
         MOD_RES
(34)..(34)
C-Terminal AMIDATION
<221>
<222>
<223>
```

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30

Xaa Tyr

<400>

```
<210>
<211>
<212>
       34
<213> Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
<223>
       MISC_FEATURE
       (26)..(26)
       Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
       MOD_RES
<222>
       (34)..(34)
       C-Terminal AMIDATION
<400> 8
```

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15
Page 4

```
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Xaa Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
        34
<211>
<212> PRT
       Artificial Sequence
<213>
<220>
<223>
        Synthetic Peptide
<220>
<221>
        MISC_FEATURE
<222>
        (28)..(28)
        Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
<223>
       MOD_RES
       (34)..(34)
C-Terminal AMIDATION
<400> 9
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 5 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Xaa Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
        10
<211>
        34
<212>
        PRT
<213>
       Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MISC_FEATURE
        (22)..(22)
<223>
        Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
       MOD_RES
       (34)..(34)
C-Terminal AMIDATION
<223>
<400>
        10
                                            Page 5
```

```
BIO-127.ST25.txt
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 5 10 15
Arg Tyr Tyr Ala Ser Xaa Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
        11
<211>
       34
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MISC_FEATURE
       (20)..(20)
<223>
       Xaa is alpha-aminoisobutyric acid
<220>
<221>
<222>
       MOD_RES
       (34)..(34)
<223>
       C-Terminal AMIDATION
<400> 11
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
Arg Tyr Tyr Xaa Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
       12
<211>
<212>
       34
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Synthetic Peptide
```

<220> <221> <222>

<223>

<220> <221> <222>

MISC_FEATURE

MOD_RES (34)..(34)

(25)..(25) Xaa is 3,4,5-trifluorophenylalanine

```
<223> C-Terminal AMIDATION
<400> 12
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
       13
<211>
<212>
       15
       PRT
<213>
       Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
        (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221>
<222>
       MISC_FEATURE
       (5)..(5)
       Xaa is beta-(4-pyridinyl)alanine
<220>
<221>
<222>
       MOD_RES
       (15)..(15)
<223>
       C-Terminal AMIDATION
<400>
Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr 10 15
<210>
       14
<211>
<212>
       15
       PRT
<213> Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
        (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221>
       MISC_FEATURE
```

<222>

(5)..(5)

```
BIO-127.ST25.txt
<223> Xaa is beta-(3-pyridinyl)alanine
<220>
<221>
<222>
      MOD_RES
       (15)...(15)
<223> C-Terminal AMIDATION
<400> 14
Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr 1 5 10 15
<210> 15
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221> MOD_RES <222> (1)..(1)
      (1)..(1)
<223> N-Terminal ACETYLATION
<220>
      MISC_FEATURE
<221>
<222>
       (6)..(6)
Xaa is 3,4,5-trifluorophenylalanine
<223>
<220>
<221> MOD_RES
<222>
       (15)..(15)
      C-Terminal AMIDATION
<223>
<400> 15
Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr
<210>
<211>
       16
       13
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
       (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221>
       MISC_FEATURE
<222>
       (3)..(3)
<223>
       Xaa is beta-(3-pyridinyl)alanine
<220>
```

```
BIO-127.ST25.txt
```

```
<221> MOD_RES
<222>
      (13)..(13)
<223>
       C-Terminal AMIDATION
<400>
Leu Arg Xaa Tyr Leu Asn Leu Leu Thr Arg Gln Arg Tyr
<210>
       17
<211>
      13
<212>
      PRT
      Artificial Sequence
<213>
<220>
<223> Synthetic Peptide
<220>
<221>
       MOD_RES
<222>
      (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221> MISC_FEATURE
<222>
<223>
      (3)..(3)
Xaa is beta-(4-pyridinyl)alanine
<220>
<221>
<222>
      MOD_RES
       (13)..(13)
<223> C-Terminal AMIDATION
<400> 17
Leu Arg Xaa Tyr Leu Asn Leu Leu Thr Arg Gln Arg Tyr
<210>
       18
      13
<211>
<212>
       PRT
<213> Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
      MOD_RES
<222>
       (1)..(1)
<223>
      N-Terminal ACETYLATION
<220>
       MISC_FEATURE
<221>
<222>
       (3)..(3)
       Xaa is beta-(2-pyridinyl)alanine
<223>
<220>
<221>
       MOD_RES
<222>
       (13)..(13)
<223>
       C-Terminal AMIDATION
```

```
<400> 18
Leu Arg Xaa Tyr Leu Asn Leu Leu Thr Arg Gln Arg Tyr
<210>
        19
<211>
<212>
        13
        PRT
<213>
        Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
<223>
        MOD_RES
         (1)..(1)
        N-Terminal ACETYLATION
<220>
<221>
<222>
        MISC_FEATURE
        (3)..(3)
Xaa is beta-(4-thiazolyl)alanine
<223>
<220>
<221>
<222>
        MOD_RES (13)..(13)
<223>
        C-Terminal AMIDATION
<400>
Leu Arg Xaa Tyr Leu Asn Leu Leu Thr Arg Gln Arg Tyr 1 \hspace{1cm} 5 \hspace{1cm} 10
<210>
        20
<211>
        15
<212>
        PRT
<213>
        Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
<223>
        MOD_RES
        (1)..(1)
        N-Terminal ACETYLATION
<220>
<221>
<222>
<223>
        MISC_FEATURE
        (5)..(5)
Xaa is beta-(4-thiazolyl)alanine
<220>
<221>
<222>
        MOD_RES
        (15)..(15)
C-Terminal AMIDATION
<223>
<400> 20
```

```
BIO-127.ST25.txt
Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr 1 5 10 15
<210>
       21
<211>
       15
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
      (1)..(1)
<223> N-Terminal ACETYLATION
<220>
<221>
<222>
      MISC_FEATURE
       (10)..(10)
       Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
      MOD_RES
<222>
       (15)..(15)
<223>
      C-Terminal AMIDATION
<400> 21
Ala Ser Leu Arg His Tyr Leu Asn Leu Xaa Thr Arg Gln Arg Tyr
<210>
       22
<211>
<212>
       15
       PRT
<213>
      Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
       (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221> MISC_FEATURE
<222>
       (9)..(9)
<223>
       Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
       MOD_RES
<222>
       (15)..(15)
<223>
       C-Terminal AMIDATION
<400> 22
Ala Ser Leu Arg His Tyr Leu Asn Xaa Val Thr Arg Gln Arg Tyr
```

```
<210>
       23
       15
<211>
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
       MOD_RES
<222>
       (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221>
       MISC_FEATURE
<222>
<223>
       (7)..(7)
Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
       MOD_RES
<221>
      (15)..(15)
C-Terminal AMIDATION
<222>
<223>
<400> 23
Ala Ser Leu Arg His Tyr Xaa Asn Leu Val Thr Arg Gln Arg Tyr 1 5 10 15
<210>
       24
<211>
<212>
       15
       PRT
<213> Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
       (1)..(1)
<223> N-Terminal ACETYLATION
<220>
       MISC_FEATURE
<221>
<222>
       (10)..(10)
       Xaa is 1-amino-1-cyclopentanecarboxylic acid
<220>
<221>
       MOD_RES
<222>
<223>
       (15)..(15)
       C-Terminal AMIDATION
<400> 24
Ala Ser Leu Arg His Tyr Leu Asn Leu Xaa Thr Arg Gln Arg Tyr
       25
15
<210>
<211>
```

```
BIO-127.ST25.txt
<212> PRT
<213> Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
       (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221>
<222>
       MISC_FEATURE
       (3)._(3)
Xaa is 1-amino-1-cyclohexanecarboxylic acid
<223>
<220>
<221>
<222>
       MOD_RES (15)..(15)
<223>
       C-Terminal AMIDATION
<400>
Ala Ser Xaa Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
<210>
       26
<211>
       15
<212> PRT
<213>
      Artificial Sequence
<220>
<223>
      Synthetic Peptide
<220>
<221>
       MOD_RES
<222>
       (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221> MISC_FEATURE
<222>
<223>
       (5)..(5)
       Xaa is D-beta-(2-pyridinyl)alanine
<220>
       MOD_RES
<221>
<222> (15)..(15)
<223> C-Terminal AMIDATION
<400> 26
Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr 10 15
```

<210> 27 <211> 15 <212> PRT

<213> Artificial Sequence

```
BIO-127.ST25.txt
<220>
<223>
        Synthetic Peptide
<220>
<221>
       MOD_RES
<222>
        (1)..(1)
<223> N-Terminal ACETYLATION
<220>
<221>
<222>
       MISC_FEATURE
        (5)..(5)
Xaa is beta-(2-pyridinyl)alanine
<223>
<220>
<221>
<222>
       MOD_RES
        (15)..(15)
<223>
       C-Terminal AMIDATION
<400>
        27
Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
<210>
        28
<211>
<212>
        13
        PRT
<213>
       Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
<223>
       MISC_FEATURE
        (1)..(1)
        Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
        MOD_RES
        (1)..(1)
<223>
        N-Terminal ACETYLATION
<220>
<221>
        MOD_RES
       (13)..(13)
C-Terminal AMIDATION
<222>
<223>
<400>
Xaa Arg His Tyr Leu Asn Leu Leu Thr Arg Gln Arg Tyr 1 5 10
```

<210> 29 <211> 13 <212> PRT <213> Artificial Sequence <220>

<223> Synthetic Peptide

```
<220>
<221>
<222>
<223>
        MOD_RES
       (1)..(1)
        N-Terminal ACETYLATION
<220>
<221>
<222>
<223>
        MISC_FEATURE
        (5)..(5)
        Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
        MOD_RES
       (13)..(13)
C-Terminal AMIDATION
<223>
<400> 29
Leu Arg His Tyr Xaa Asn Leu Leu Thr Arg Gln Arg Tyr
1 10
<210>
        30
<211>
        13
<212> PRT
<213> Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221> MOD_RES
<222> (1)..(1)
       (1)..(1)
<223> N-Terminal ACETYLATION
<220>
       MISC_FEATURE
<221>
<222>
        (8)..(8)
<223>
       Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
<223>
       MOD_RES
        (13)..(13)
        C-Terminal AMIDATION
<400>
        30
Leu Arg His Tyr Leu Asn Leu Xaa Thr Arg Gln Arg Tyr
<210>
<211>
        31
34
<212>
        PRT
<213>
       Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
       MISC_FEATURE
```

```
BIO-127.ST25.txt
        (18)..(18)
Xaa is 2,3,4,5,6-pentafluorophenylalanine
<222>
<220>
<221>
<222>
        MOD_RES
        (34)..(34)
       C-Terminal AMIDATION
<400>
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 \hspace{1cm} 10 \hspace{1cm} 15
Arg Xaa Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
<211>
        34
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221> MISC_FEATURE
<222> (19)..(19)
<222> (19)..(19)
<223> Xaa is 2,3,4,5,6-pentafluorophenylalanine
<220>
<221>
<222>
        MOD_RES
        (34)..(34)
<223>
       C-Terminal AMIDATION
<400> 32
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
Arg Tyr Xaa Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210> 33
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
```

```
<220>
       MOD_RES
<221>
<222>
       (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221>
       MISC_FEATURE
<222>
<223>
       (5)..(5)
Xaa is 2,3,4,5,6-pentafluorophenylalanine
<220>
<221>
<222>
       MOD_RES
       (15)..(15)
C-Terminal AMIDATION
<223>
<400> 33
Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr 10 15
<210>
       34
<211>
       13
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
      MOD_RES
<222>
       (1)..(1)
<223> N-Terminal ACETYLATION
<220>
<221>
<222>
       MISC_FEATURE
       (3). (3)
Xaa is 2,3,4,5,6-pentafluorophenylalanine
<223>
<220>
<221>
       MOD_RES
<222>
       (13)..(13)
<223>
       C-Terminal AMIDATION
<400> 34
Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
<210>
       35
<211>
       34
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
      MISC_FEATURE
<221>
```

```
BIO-127.ST25.txt
        (24)..(24)
Xaa is 2,3,4,5,6-pentafluorophenylalanine
<220>
<221>
<222>
        MOD_RES
        (34)..(34)
       C-Terminal AMIDATION
<400>
        35
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 10 15
Arg Tyr Tyr Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
        36
<211> 15
<212> PR
        PRT
<213> Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
<223>
       MOD_RES
        (1)..(1)
       N-Terminal ACETYLATION
<220>
<221>
<222>
        MISC_FEATURE
        (6)..(6)
Xaa is 2,3,4,5,6-pentafluorophenylalanine
<220>
<221>
<222>
<223>
        MOD_RES
        (15)..(15)
C-Terminal AMIDATION
<400>
        36 -
Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr
<210>
        37
<211>
        13
<212>
<213>
        Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
        MOD_RES
```

```
BIO-127.ST25.txt
<222> (1)..(1)
        N-Terminal ACETYLATION
<220>
<221>
<222>
        MISC_FEATURE
       (4)..(4)
Xaa is 2,3,4,5,6-pentafluorophenylalanine
<220>
<221>
<222>
        MOD_RES
        (13)..(13)
<223>
        C-Terminal AMIDATION
<400>
Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr 1 10
<210>
        38
<211>
        34
<212>
       PRT
       Artificial Sequence
<213>
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
        MISC_FEATURE
       (25)..(25)
Xaa is 2,3,4,5,6-pentafluorophenylalanine
<223>
<220>
<221>
        MOD_RES
<222>
<223>
        (34)..(34)
C-Terminal AMIDATION
<400>
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 5 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
<211>
        39
        15
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
```

<221>

MOD_RES

```
BIO-127.ST25.txt
<222> (1)..(1)
       N-Terminal ACETYLATION
<220>
<221>
<222>
       MISC_FEATURE
       (15)..(15)
Xaa is 2,3,4,5,6-pentafluorophenylalanine
<223>
<220>
<221>
       MOD_RES
<222>
       (15)..(15)
<223>
       C-Terminal AMIDATION
<400>
Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Xaa 1 10 15
<210>
       40
<211>
       13
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
       (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221>
<222>
       MISC_FEATURE
       (13)..(13)
Xaa is 2,3,4,5,6-pentafluorophenylalanine
<223>
<220>
<221>
<222>
       MOD_RES
       (13)..(13)
<223>
       C-Terminal AMIDATION
<400> 40
Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Xaa
<210>
       41
<211>
       34
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
       MISC_FEATURE
<221>
<222>
       (34)..(34)
```

Xaa is 2,3,4,5,6-pentafluorophenylalanine

```
<220>
        MOD_RES
<221>
<222>
       (34)..(34)
<223>
        C-Terminal AMIDATION
<400> 41
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 10 	15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30
Arg Xaa
<210>
        42
<211> 34
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
       MISC_FEATURE
<222>
       (18)..(18)
Xaa is 3,4,5-trifluorophenylalanine
<223>
<220>
<221> MOD_RES
<222>
<223>
        (34)..(34)
C-Terminal AMIDATION
<400> 42
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 10 15
Arg Xaa Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
       43
<211>
       34
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221> MISC_FEATURE
```

```
BIO-127.ST25.txt
<222>
        (19)..(19)
        Xaa is 3,4,5-trifluorophenylalanine
<220>
<221>
<222>
       MOD_RES (34) . . (34)
<223> C-Terminal AMIDATION
<400>
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15
Arg Tyr Xaa Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
        44
<211>
        15
<212>
        PRT
<213> Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
        MOD_RES
        (1)..(1)
<223>
        N-Terminal ACETYLATION
<220>
<221>
<222>
        MISC_FEATURE
        (5)..(5)
        Xaa is 3,4,5-trifluorophenylalanine
<223>
<220>
<221>
       MOD_RES
<222>
        (15)..(15)
<223>
        C-Terminal AMIDATION
<400> 44
Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr 1 10 15
<210>
        45
<211>
<212>
        13
        PRT
<213>
       Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
```

<221>

MOD_RES

```
BIO-127.ST25.txt
<222> (1)..(1)
        N-Terminal ACETYLATION
<220>
<221>
<222>
        MISC_FEATURE
        (3)...(3)
        Xaa is 3,4,5-trifluorophenylalanine
<220>
<221>
<222>
       MOD_RES (13)..(13)
<223>
        C-Terminal AMIDATION
<400>
Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr 1 5 10
<210>
        46
<211>
        34
<212>
       PRT
<213>
        Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
        MISC_FEATURE
       (24)..(24)
Xaa is 3,4,5-trifluorophenylalanine
<222>
<223>
<220>
<221>
        MOD_RES
<222>
<223>
       (34)..(34)
C-Terminal AMIDATION
<400> 46
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 10 15
Arg Tyr Tyr Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
        47
<211>
        13
<212>
        PRT
<213>
        Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
        MOD_RES
```

```
BIO-127.ST25.txt
<222> (1)..(1)
       N-Terminal ACETYLATION
<220>
<221>
<222>
       MISC_FEATURE
       (4)..(4)
Xaa is 3,4,5-trifluorophenylalanine
<220>
<221>
<222>
       MOD_RES
       (13)..(13)
<223>
       C-Terminal AMIDATION
<400> 47
Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr 1 10
<210>
       48
<211>
       15
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
       MOD_RES
<222>
       (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221> MISC_FEATURE
<222>
<223>
       (15)..(15)
Xaa is 3,4,5-trifluorophenylalanine
<220>
<221>
<222>
       MOD_RES
       (15)..(15)
C-Terminal AMIDATION
<223>
<400> 48
Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Xaa
<210>
       49
<211>
       13
<212>
       PRT
<213> Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221> MOD_RES
<222>
       (1)..(1)
<223> N-Terminal ACETYLATION
```

```
BIO-127.ST25.txt
<220>
<221>
        MISC_FEATURE
<222>
        (13)..(13)
        Xaa is 3,4,5-trifluorophenylalanine
<223>
<220>
<221>
        MOD_RES
<222>
        (13)..(13)
<223>
        C-Terminal AMIDATION
<400> 49
Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Xaa
1 5 10
<210>
        50
<211>
<212>
        34
        PRT
<213>
        Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
<223>
        MISC_FEATURE
        (34)..(34)
Xaa is 3,4,5-trifluorophenylalanine
<220>
<221>
<222>
        MOD_RES
        (34)..(34)
<223>
        C-Terminal AMIDATION
<400>
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 \hspace{1cm} 10 \hspace{1cm} 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Xaa
<210>
        51
<211>
        13
<212>
        PRT
<213> Artificial Sequence
<220>
<223>
        Synthetic Peptide
```

<220>

<222>

<221> MOD_RES

(1)..(1)

<223> N-Terminal ACETYLATION

```
BIO-127.ST25.txt
<220>
        MISC_FEATURE
<221>
        (8)..(8)
Xaa is 1-amino-1-cyclopentanecarboxylic acid
<222>
<220>
<221>
        MOD_RES
<222>
        (13)..(13)
<223>
        C-Terminal AMIDATION
<400> 51
Leu Arg His Tyr Leu Asn Leu Xaa Thr Arg Gln Arg Tyr
<210>
        52
<211>
<212>
        34
        PRT
<213>
        Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
<223>
        MISC_FEATURE
        (8)..(8)
        Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
        MOD_RES
        (34)..(34)
<223>
        C-Terminal AMIDATION
<400>
        52
Ile Lys Pro Glu Ala Pro Gly Xaa Asp Ala Ser Pro Glu Glu Leu Asn 1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
        53
<211>
        34
<212>
        PRT
<213> Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
       MISC_FEATURE (9)..(9)
<221>
<222>
```

Xaa is 1-amino-1-cyclohexanecarboxylic acid

<223>

```
<221>
        MOD_RES
<222>
       (34)..(34)
<223>
        C-Terminal AMIDATION
<400> 53
Ile Lys Pro Glu Ala Pro Gly Glu Xaa Ala Ser Pro Glu Glu Leu Asn 1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30
Arg Tyr
<210>
        54
<211>
        34
<212> PRT
<213>
        Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
        MISC_FEATURE
<222>
        (10)..(10)
<223>
        Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221> MOD_RES
<222>
<223>
       (34)..(34)
C-Terminal AMIDATION
<400> 54
Ile Lys Pro Glu Ala Pro Gly Glu Asp Xaa Ser Pro Glu Glu Leu Asn 10 	15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
        55
34
<210>
<211>
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221> MISC_FEATURE
```

<220>

```
BIO-127.ST25.txt
        (11)..(11)
       Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
       MOD_RES
        (34)..(34)
       C-Terminal AMIDATION
<223>
<400>
        55
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Xaa Pro Glu Glu Leu Asn
1 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
        56
<211>
       34
<212>
       PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
       MISC_FEATURE (13)..(13)
<223>
      Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
       MOD_RES
       (34)..(34)
<223>
       C-Terminal AMIDATION
<400>
       56
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Xaa Glu Leu Asn
1 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
       57
       34
<211>
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
      Synthetic Peptide
```

```
<220>
<221>
        MISC_FEATURE
<222>
        (14)..(14)
Xaa is 1-amino-1-cyclohexanecarboxylic acid
<223>
<220>
<221>
        MOD_RES
<222>
<223>
        (34)..(34)
C-Terminal AMIDATION
<400> 57
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Xaa Leu Asn
1 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
        58
<211>
<212>
        34
        PRT
<213>
        Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
<223>
        MISC_FEATURE
        (15)..(15)
Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
        MOD_RES
        (34)..(34)
<223>
        C-Terminal AMIDATION
<400>
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Xaa Asn 1 5 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
        59
<211>
        34
<212>
        PRT
<213> Artificial Sequence
```

```
BIO-127.ST25.txt
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
       MISC_FEATURE (16) . (16)
        Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
        MOD_RES
        (34)..(34)
<223>
        C-Terminal AMIDATION
<400>
        59
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Xaa
1 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
```

Arg Tyr

```
<210>
        60
<211>
        34
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
       MISC_FEATURE
<222>
        (18)..(18)
<223>
       Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
<223>
       MOD_RES
        (34)..(34)
C-Terminal AMIDATION
<400> 60
```

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 10 15

Arg Xaa Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30

Arg Tyr

<210> 61 <211> 34

```
BIO-127.ST25.txt
```

```
<220>
<223> Synthetic Peptide

<220>
<221> MISC_FEATURE
<222> (19)..(19)
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid

<220>
<221> MOD_RES
<222> (34)..(34)
<223> C-Terminal AMIDATION

<400> 61
```

Artificial Sequence

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Arg Tyr Xaa Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30

Arg Tyr

63 34

<210> <211>

<212> <213>

```
<210>
       62
<211>
       15
<212>
       PRT
<213> Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MISC_FEATURE
       (1)...(1)
<223>
       Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
       MOD_RES
        (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221>
<222>
       MOD_RES
       (15)..(15)
<223>
       C-Terminal AMIDATION
<400> 62
Xaa Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr 1 10 15
```

```
BIO-127.ST25.txt
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
       MISC_FEATURE
<222>
       (20)..(20)
       Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
       MOD_RES
<222>
       (34)..(34)
<223>
       C-Terminal AMIDATION
<400>
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 10 15
Arg Tyr Tyr Xaa Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
       64
<211>
<212>
       13
       PRT
<213> Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MISC_FEATURE (1)..(1)
       Xaa is 1-amino-1-cyclohexanecarboxylic acid
```

<220> <221> <222> MOD_RES

(1)..(1)<223> N-Terminal ACETYLATION

<220> <221> <222> MOD_RES (13)..(13)

<223> C-Terminal AMIDATION

<400>

Xaa Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr 1 0

<210> 65 <211>

```
BIO-127.ST25.txt
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
<223>
        MOD_RES
        (1)..(1)
        N-Terminal ACETYLATION
<220>
<221>
<222>
        MISC_FEATURE
        (6)..(6)
Xaa is 1-amino-1-cyclohexanecarboxylic acid
<223>
<220>
<221>
<222>
        MOD_RES
        (15)..(15)
<223>
        C-Terminal AMIDATION
<400> 65
Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr
<210>
        66
<211> 13
<212> PRT
<213> Artificial Sequence
<220>
       Synthetic Peptide
<223>
<220>
<221>
        MOD_RES
<222>
       (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221>
<222>
<223>
       MISC_FEATURE
(4)..(4)
       Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
       MOD_RES
<222> (13)..(13)
<223> C-Terminal AMIDATION
<400> 66
Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln Arg Tyr
<210>
        67
<211> 34
<212> PRT
<213> Artificial Sequence
```

```
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MISC_FEATURE
       (25)..(25)
<223> Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
       MOD_RES
       (34)..(34)
<223>
       C-Terminal AMIDATION
<400> 67
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Xaa Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210> 68
<211> 13
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
       MOD_RES
<222>
       (1)...(1)
<223>
       N-Terminal ACETYLATION
<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> Xaa is 1-amii
       Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
       MOD_RES
<222> (13)..(13)
<223> C-Terminal AMIDATION
<400> 68
Leu Arg His Tyr Xaa Asn Leu Val Thr Arg Gln Arg Tyr 1 5 10
<210>
       69
<211> 15
<212> PRT
<213> Artificial Sequence
```

```
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
       (1)..(1)
       N-Terminal ACETYLATION
<223>
<220>
<221>
<222>
        MISC_FEATURE
        (8)..(8)
<223>
        Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
        MOD_RES
        (15)..(15)
<223>
       C-Terminal AMIDATION
<400> 69
Ala Ser Leu Arg His Tyr Leu Xaa Leu Val Thr Arg Gln Arg Tyr
<210>
        70
<211>
<212>
        13
        PRT
<213>
        Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
<223>
       MOD_RES
        (1)..(1)
        N-Terminal ACETYLATION
<220>
<221>
<222>
        MISC_FEATURE
       (6)..(6)
Xaa is 1-amino-1-cyclohexanecarboxylic acid
<223>
<220>
<221>
<222>
        MOD_RES
        (13)..(13)
<223>
        C-Terminal AMIDATION
<400>
Leu Arg His Tyr Leu Xaa Leu Val Thr Arg Gln Arg Tyr 1 5 10
<210>
        71
<211>
        34
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223> Synthetic Peptide
```

```
<220>
<221>
<222>
        MISC_FEATURE
        (27)..(27)
Xaa is 1-amino-1-cyclohexanecarboxylic acid
<223>
<220>
<221>
        MOD_RES
<222>
        (34)..(34)
<223>
        C-Terminal AMIDATION
<400> 71
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Xaa Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
        72
<211>
        34
<212>
        PRT
        Artificial Sequence
<213>
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
<223>
        MISC_FEATURE
        (1)..(1)
        Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
        MOD_RES
        (34)..(34)
C-Terminal AMIDATION
<223>
<400>
        72
Xaa Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210>
        73
<211>
        13
<212>
        PRT
<213> Artificial Sequence
```

```
BIO-127.ST25.txt
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
       (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221>
<222>
       MISC_FEATURE
       (7)..(7)
Xaa is 1-amino-1-cyclohexanecarboxylic acid
<223>
<220>
<221>
       MOD_RES
<222>
       (13)..(13)
<223>
       C-Terminal AMIDATION
<400> 73
```

Leu Arg His Tyr Leu Asn Xaa Val Thr Arg Gln Arg Tyr
1 10

```
<210>
       74
<211>
<212>
       34
       PRT
<213>
       Artificial Sequence
<220>
<223> Synthetic Peptide
```

```
<220>
<221>
<222>
<223>
        MISC_FEATURE
        (29)..(29)
        Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
        MOD_RES (34)..(34)
<223>
       C-Terminal AMIDATION
<400>
```

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Xaa Thr Arg Gln 20 25 30

```
<210>
      75
     15
<211>
<212>
     PRT
<213> Artificial Sequence
```

```
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
        (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221>
<222>
        MISC_FEATURE
        (11)..(11)
<223>
        Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
       MOD_RES (15)..(15)
<221>
<222>
<223>
       C-Terminal AMIDATION
<400> 75
Ala Ser Leu Arg His Tyr Leu Asn Leu Val Xaa Arg Gln Arg Tyr
<210>
       76
<211>
<212>
       13
        PRT
<213>
       Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
<223>
       MOD_RES
        (1)..(1)
       N-Terminal ACETYLATION
<220>
<221>
<222>
       MISC_FEATURE
        (9)..(9)
<223>
       Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
       MOD_RES
       (13)..(13)
C-Terminal AMIDATION
<223>
<400> 76
Leu Arg His Tyr Leu Asn Leu Val Xaa Arg Gln Arg Tyr 1 5 10
<210>
       77
<211>
       34
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Synthetic Peptide
```

```
<220>
<221>
<222>
        MISC_FEATURE
       (30)..(30) 
Xaa is 1-amino-1-cyclohexanecarboxylic acid
<223>
<220>
<221>
       MOD_RES
<222>
        (34)..(34)
<223>
        C-Terminal AMIDATION
<400> 77
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Xaa Arg Gln 20 25 30
Arg Tyr
<210>
        78
<211>
        34
<212>
        PRT
       Artificial Sequence
<213>
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
<223>
        MISC_FEATURE
        (4)..(4)
Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
        MOD_RES
        (34)..(34)
C-Terminal AMIDATION
<223>
<400>
Ile Lys Pro Xaa Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
        79
<210>
<211>
        34
<212>
      PRT
<213> Artificial Sequence
```

```
BIO-127.ST25.txt
```

```
<220>
<223>
       Synthetic Peptide
<220>
       MISC_FEATURE
<221>
<222>
        (5)..(5)
       Xaa is 1-amino-1-cyclohexanecarboxylic acid
<220>
<221>
<222>
       MOD_RES
        (34)..(34)
<223>
       C-Terminal AMIDATION
<400>
      79
Ile Lys Pro Glu Xaa Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 5 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 25 30
Arg Tyr
<210>
       80
<211>
<212>
       34
       PRT
<213>
      Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MISC_FEATURE
       (7)..(7)
Xaa is 1-amino-1-cyclohexanecarboxylic acid
<223>
<220>
       MOD_RES (34)..(34)
<221>
<222>
<223>
       C-Terminal AMIDATION
<400> 80
Ile Lys Pro Glu Ala Pro Xaa Glu Asp Ala Ser Pro Glu Glu Leu Asn
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
<210> 81
<211>
```

```
BIO-127.ST25.txt
<212>
        PRT
<213>
       Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
<223>
       MISC_FEATURE
       (10)..(10)
Xaa is 4-amino-4-carboxytetrahydropyran
<220>
<221>
<222>
       MOD_RES
       (34)..(34)
<223>
        C-Terminal AMIDATION
<400>
        81
Ile Lys Pro Glu Ala Pro Gly Glu Asp Xaa Ser Pro Glu Glu Leu Asn 1 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30
Arg Tyr
<210>
        82
<211>
        34
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221> MISC_FEATURE <222> (11)..(11)
       (11)..(11)
<223> Xaa is 4-amino-4-carboxytetrahydropyran
<220>
<221>
<222>
       MOD_RES
        (34)..(34)
<223> C-Terminal AMIDATION
<400> 82
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Xaa Pro Glu Glu Leu Asn 1 5 10 15
```

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30

```
<210>
        83
<211>
<212>
        15
        PRT
<213>
        Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
        MOD_RES
        (1)..(1)
<223>
        N-Terminal ACETYLATION
<220>
<221>
        MISC_FEATURE
<222>
        (2). (2)
Xaa is 4-amino-4-carboxytetrahydropyran
<223>
<220>
<221>
        MOD_RES
<222>
        (15)..(15)
        C-Terminal AMIDATION
<400> 83
Ala Xaa Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr 1 10 15
<210>
        84
<211>
        34
<212>
        PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Xaa is 4-amino-4-carboxytetrahydropyran
<220>
<221>
<222>
        MOD_RES
        (34)..(34)
<223>
       C-Terminal AMIDATION
<400> 84
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15
Arg Tyr Tyr Ala Xaa Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30
```

```
<210>
       85
<211>
       15
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
       (1)..(1)
<223> N-Terminal ACETYLATION
<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa is 4-amino-4-carboxytetrahydropyran
<220>
<221>
       MOD_RES
<222>
       (15)..(15)
       N-Terminal AMIDATION
<223>
<400> 85
Ala Ser Leu Arg His Tyr Leu Asn Leu Val Xaa Arg Gln Arg Tyr 1 5 10 15
<210>
       86
<211>
       13
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221> MOD_RES
<222> (1)..(1)
      (1)..(1)
<223> N-Terminal ACETYLATION
<220>
<221>
<222>
      MISC_FEATURE ·
       (9)..(9)
<223>
       Xaa is 4-amino-4-carboxytetrahydropyran
<220>
<221>
      MOD_RES
<222>
       (13)..(13)
<223>
      C-Terminal AMIDATION
<400> 86
Leu Arg His Tyr Leu Asn Leu Val Xaa Arg Gln Arg Tyr 1 10
<210>
       87
<211>
       34
```

```
BIO-127.ST25.txt
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MISC_FEATURE
        (30) \dots (30)
<223>
       Xaa is 4-amino-4-carboxytetrahydropyran
<220>
<221>
<222>
       MOD_RES
       (34)..(34)
<223>
       C-Terminal AMIDATION
<400>
       87
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Xaa Arg Gln 20 25 30
Arg Tyr
<210>
       88
<211>
       34
<212>
       PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
       MISC_FEATURE
       (5)..(5)
Xaa is 4-amino-4-carboxytetrahydropyran
<222>
<220>
<221>
<222>
       MOD_RES
       (34)..(34)
<223>
       C-Terminal AMIDATION
```

<400> 88

Ile Lys Pro Glu Xaa Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30

```
<210>
       89
<211>
       15
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
       MISC_FEATURE
<222>
       (1)..(1)
Xaa is alpha-aminoisobutyric acid
<223>
<220>
<221>
       MOD_RES
<222>
       (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221>
       MOD_RES
<222>
       (15)..(15)
       C-Terminal AMIDATION
<223>
<400> 89
Xaa Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr 1 5 10 15
<210>
       90
<211>
       34
<212>
       PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
       MISC_FEATURE (17) ...(17)
<223>
      Xaa is Apc as defined in the specification
<220>
<221>
<222>
       MOD_RES
       (34)..(34)
<223>
       C-Terminal AMIDATION
<400> 90
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 10 15
Xaa Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30
```

```
<210> 91
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
        MOD_RES
<221>
<222>
       (1)..(1)
N-Terminal ACETYLATION
<223>
<220>
<221>
<222>
        MISC_FEATURE
<222> (4)..(4)
<223> Xaa is Apc as defined in the specification
<220>
<221>
<222>
        MOD_RES
<222> (15)..(15)
<223> C-Terminal AMIDATION
<400> 91
Ala Ser Leu Xaa His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
<210>
        92
<211> 13
<212> PRT
<213> Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221> MOD_RES
<222> (1)..(1)
<223> N-Terminal ACETYLATION
<220>
<221> MISC_FEATURE
<222>
        (2)...(2)
       Xaa is Apc as defined in the specification
<220>
<221>
<222>
       MOD_RES
        (13)..(13)
<223>
        C-Terminal AMIDATION
<400> 92
Leu Xaa His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 10
<210>
        93
<211>
        34
```

```
BIO-127.ST25.txt
```

```
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
<223>
       MISC_FEATURE
        (23) . . (23)
        Xaa is Apc as defined in the specification
<220>
<221>
<222>
        MOD_RES
<222> (34)..(34)
<223> C-Terminal AMIDATION
<400>
       93
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 10 15
Arg Tyr Tyr Ala Ser Leu Xaa His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30
Arg Tyr
<210> 94
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221> MOD_RES
<222> (1)..(1)
<223> N-Terminal ACETYLATION
<220>
<221>
<222>
        MISC_FEATURE
        (5)..(5)
<223>
        Xaa is Apc as defined in the specification
<220>
<221>
       MOD_RES
<222>
        (15)..(15)
<223>
        C-Terminal AMIDATION
<400> 94
Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr 1 10 15
<210>
        95
<211>
        13
```

Page 47

```
BIO-127.ST25.txt
<212> PRT
<213>
        Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
<223>
        MOD_RES
        (1)..(1)
        N-Terminal ACETYLATION
<220>
<221>
<222>
        MISC_FEATURE
        (3).\overline{\phantom{a}}(3) Xaa is Apc as defined in the specification
<223>
<220>
<221>
<222>
        MOD_RES (13)..(13)
<223>
        C-Terminal AMIDATION
<400>
Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr 1 10
<210>
        96
<211>
        34
<212>
       PRT
<213>
        Artificial Sequence
<220>
<223>
        Synthetic Peptide
<220>
<221>
        MISC_FEATURE
<222>
        (24)..(24)
<223>
        Xaa is Apc as defined in the specification
<220>
<221>
<222>
<223>
        MOD_RES
        (34)..(34)
C-Terminal AMIDATION
<400> 96
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
10 15
Arg Tyr Tyr Ala Ser Leu Arg Xaa Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30
Arg Tyr
```

97

15

<210> <211>

Page 48

```
BIO-127.ST25.txt
<212> PRT
<213> Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
       (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221>
       MISC_FEATURE
<222>
       (12) ... (12)
<223>
       Xaa is Apc as defined in the specification
<220>
<221>
<222>
       MOD_RES
       (15)..(15)
<223>
       C-Terminal AMIDATION
<400>
Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Xaa Gln Arg Tyr
<210>
       98
<211>
       13
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221>
       MOD_RES
<222>
       (1)..(1)
<223>
       N-Terminal ACETYLATION
<220>
<221>
<222>
<223>
       MISC_FEATURE
       (10)...(10) Xaa is Apc as defined in the specification
<220>
<221>
<222>
       MOD_RES
       (13)..(13)
```

<210> 99 <211> 34 <212> PRT <213> Artificial Sequence

C-Terminal AMIDATION

Leu Arg His Tyr Leu Asn Leu Val Thr Xaa Gln Arg Tyr

<223>

<400> 98

```
<220>
<223>
        Synthetic Peptide
<220>
<221>
<222>
        MISC_FEATURE
        (31)..(31)
<223>
      Xaa is Apc as defined in the specification
<220>
<221>
<222>
        MOD_RES
        (34)..(34)
<223>
        C-Terminal AMIDATION
<400> 99
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 5 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Xaa Gln 20 25 30
Arg Tyr
<210>
        100
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
        MOD_RES
       (1)..(1)
<223>
        N-Terminal ACETYLATION
<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa is Apc as
        (13)..(13)
Xaa is Apc as defined in the specification
<220>
<221>
<222>
       MOD_RES
        (15)..(15)
<223>
        C-Terminal AMIDATION
<400> 100
Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Xaa Arg Tyr
1 5 10 15
<210>
        101
<211>
      13
<212> PRT
<213> Artificial Sequence
```

```
<220>
<223>
        Synthetic Peptide
<220>
<221> MOD_RES <222> (1)..(1)
       (1)..(1)
<223> N-Terminal ACETYLATION
<220>
<221>
<222>
       MISC_FEATURE
        (11)..(11)
<223>
        Xaa is Apc as defined in the specification
<220>
<221>
<222>
       MOD_RES
(13)..(13)
<223> C-Terminal AMIDATION
<400> 101
Leu Arg His Tyr Leu Asn Leu Val Thr Arg Xaa Arg Tyr 1 10
<210>
        102
<211>
        34
       o¬
PRT
<212>
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221> MISC_FEATURE
<222> (32)..(32)
<223> Xaa is Apc as
        (32)..(32)
Xaa is Apc as defined in the specification
<220>
<221> MOD_RES
<222> (34)..(34)
<223> C-Terminal AMIDATION
<400> 102
Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 10 15
Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Xaa 20 25 30
Arg Tyr
<210> 103
<211> 15
        103
<212> PRT
<213> Artificial Sequence
```

```
<220>
<223>
       Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
       (1)..(1)
<223> N-Terminal ACETYLATION
<220>
<221>
<222>
       MISC_FEATURE
       (14)..(14)
<223>
       Xaa is Apc as defined in the specification
<220>
<221>
<222>
       MOD_RES
       (15)..(15)
<223>
       C-Terminal AMIDATION
<400> 103
Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Xaa Tyr
<210>
       104
<211>
<212>
       13
       PRT
<213>
       Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
<223>
       MOD_RES
       (1)..(1)
       N-Terminal ACETYLATION
<220>
<221> MISC_FEATURE <222> (12)..(12)
       Xaa is Apc as defined in the specification
<223>
<220>
<221>
<222>
       MOD_RES
       (13)..(13)
<223>
       C-Terminal AMIDATION
<400> 104
Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Xaa Tyr
1 5 10
<210>
       105
<211>
       15
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223> Synthetic Peptide
```

```
<220>
<221>
       MOD_RES
<222> (1)..(1)
<223> N-Terminal ACETYLATION
<220>
<221> MISC_FEATURE
<222> (15)..(15)
<223> Xaa is Apc as defined in the specification
<220>
<221>
       MOD_RES
<222> (15)..(15)
<223> C-Terminal AMIDATION
<400> 105
Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Xaa 1 10 15
<210>
       106
<211> 13
<212> PRT
<213> Artificial Sequence
<220>
<223> Synthetic Peptide
<220>
<221>
<222>
       MOD_RES
       (1)..(1)
<223> N-Terminal ACETYLATION
<220>
<221>
<222>
       MISC_FEATURE
       (13)..(13)
<223>
       Xaa is Apc as defined in the specification
<220>
<221>
       MOD_RES
<222>
       (13)..(13)
<223>
       C-Terminal AMIDATION
<400> 106
Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Xaa
<210>
       107
<211>
       34
<212>
       PRT
<213>
       Artificial Sequence
<220>
<223>
       Synthetic Peptide
<220>
<221> MISC_FEATURE
```

Page 53

BIO-127.ST25.txt <222> (34)..(34)<223> Xaa is Apc as defined in the specification <220> <221> <222> MOD_RES (34)..(34) C-Terminal AMIDATION <223> <400> 107 Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn $10 ext{1}$ Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln 20 25 30 Arg Xaa <210> 108 <211> 34 <212> PRT <213> Artificial Sequence <220> <223> Synthetic Peptide <220> <221> <222> MISC_FEATURE (2)..(2) Xaa is Apc as defined in the specification <220> <221> <222> MOD_RES (34)..(34)<223> C-Terminal AMIDATION <400> 108 Ile Xaa Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn 1 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30